

VERSION SHOWING CHANGES MADE

In the Abstract

Please amend the abstract of the invention at page 21 of the specification as follows:

--A rotating machine [is disclosed that] has a case with an exterior surface, a pulley end, an opposite end, and an interior working chamber. A rotary shaft is mounted for rotation within the interior working chamber between the pulley end and the opposite end. At least one machine component is supported for rotation on the rotary shaft. At least one air inlet and at least one air outlet are formed through the case. A first fan is supported for rotation on the rotary shaft within the interior of the case and is arranged for pulling air through the air inlet into the interior working chamber of the case and for pushing air out the air outlet from the interior working chamber of the case. A cowl is received over the opposite end of the case. The cowl defines a plenum between an interior surface of the cowl and the case and also defines an annular air opening around a perimeter of the cowl and the case. A second fan is positioned within the plenum wherein the plenum and the second fan are arranged for assisting in moving air through the interior working chamber of the case opposite end and also for pushing air toward the case and exiting the plenum through the annular opening to pass back over the exterior surface of the case.--.

In the Claims

Please amend claims 1, 3, 4, 6, 12-16, and 20 as follows:

1. (Amended) A rotary machine comprising:

a case having an exterior surface exposed to an ambient air, a drive end, an opposite end, and an interior working chamber;

a rotary shaft supported for rotation within the working chamber between the drive end and the opposite end;

at least one machine component supported on the rotary shaft for rotation in the working chamber;

at least one air inlet and at least one air outlet formed in the case;

a first fan supported for rotation on the rotary shaft within the working chamber and arranged [for moving air] to create an internal air flow through the working chamber from the at least one air inlet over the at least one machine component to the at least one air outlet;

a cowl received over the case opposite end and defining a plenum between an interior surface of the cowl and the [case] opposite end of the case, the cowl defining an annular exhaust opening around a perimeter of the cowl [and facing the case exterior surface]; and

a second fan positioned within the plenum and mounted for rotation on a portion of the rotary shaft, the second fan being arranged both for assisting the first fan in [moving air] creating the internal air flow through the working chamber and for [moving at least a portion of air within the plenum] creating an external air flow through the exhaust opening and over the [case] exterior surface of the case.

3. (Amended) A rotary machine according to claim 1, further comprising:

a gap between an inner surface of the case and the at least one machine component permitting the internal air [to] flow to pass through the working chamber between the case and the machine component.

4. (Amended) A rotary machine according to claim 1, further comprising:

a plurality of longitudinal openings provided in portions of the at least one machine component permitting the internal air [to] flow to pass through the at least one machine component during operation.

6. (Amended) A rotary machine according to claim 1, wherein the cowl further includes at least one air inlet port formed concentric with the rotary shaft for admitting [additional] a supply of the ambient air into the plenum, a portion of which is mixed with the external air flow and directed over the exterior surface of the case.

12. (Amended) A rotary machine according to claim 1, wherein the first fan is arranged for [moving air] creating the internal air flow from the drive end toward the opposite end of the case and wherein the second fan [moves air] directs the internal air flow exiting the at

least one air outlet toward the exhaust opening of the plenum to create at least a portion of the external air flow.

13. (Amended) A rotary machine according to claim 1, wherein the first fan is arranged for [moving air] creating the internal air flow from the opposite end toward the drive end of the case.

14. (Amended) A rotary machine according to claim 1, further comprising:
a baffle plate positioned between the at least one air inlet and the first fan, the baffle plate having one or more air openings formed therethrough and being arranged to assist in distributing the internal air flow over the interior working chamber near the at least one air inlet.

15. (Amended) A rotary machine according to claim 1, further comprising:
an inlet chamber in communication with the at least one air inlet, the inlet chamber positioned near the first fan; and
a plurality of air passages provided in a wall of the inlet chamber facing the first fan arranged to assist in distributing the internal air flow over the interior working chamber near the first fan.

16. (Amended) A rotary machine according to claim 1, further comprising:
at least one supplemental air outlet positioned upstream of the at least one air outlet for permitting a portion of the internal air flow [moving] through the interior working chamber to exit the case prior to reaching the at least one air outlet.

20. (Amended) A method of cooling a rotary machine having a case with an exterior surface exposed to a supply of ambient air, a rotary shaft supported within an interior working chamber of the case, and at least one machine component supported for rotation on the rotary shaft within the working chamber, the method comprising the steps of:

providing at least one air inlet and at least one air outlet in fluid communication with the working chamber;

mounting a first fan for rotation on the rotary shaft within the working chamber;

mounting a second fan for rotation on the rotary shaft within a plenum on one end of the machine and exterior to the case;

arranging the first fan [for moving air] to create an internal air flow through the working chamber of the case from the at least one air inlet and over the at least one machine component to the at least one air outlet; and

arranging the second fan [for moving at least a portion of air within] both to create an external air flow from the plenum back over [an] the exterior surface of the case and [for assisting] to assist the first fan in [moving air] creating the internal air flow through the working chamber.